TRANSLATION PATENT COOPERATION TREATY POT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

1 **	t's or agent's file reference	FOR FURTHER	ACTION	See Form PCT/IPEA/416					
Internation	onal application No.	International filing of	date (day/month/year)	Priority date (day/month/year)					
PCT	/EP2004/01432	27 16.12.20	04	18.12.2003					
International Patent Classification (IPC) or national classification and IPC C08G18/08, C08G18/66, C09D175/04, C14C11/00, C09D11/00									
Applicant BASF AKTIENGESELLSCHAFT									
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 									
2.	This REPORT consists of	a total of5	sheets, including	g this cover sheet.					
3.	This report is also accompa	anied by ANNEXES, comprising	g:						
	a. (sent to the app	olicant and to the International E	Bureau) a total of	sheets, as follows:					
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))								
				, containing a sequence listing and/or tables					
		n computer readable form only, e Administrative Instructions).	as indicated in the Supple	emental Box Relating to Sequence Listing (see					
4.		tions relating to the following ite	ems:						
	Box No. I	Basis of the report							
	Box No. II F	Priority							
	Box No. III N	Non-establishment of opinion wi	th regard to novelty, invent	ive step and industrial applicability					
	Box No. IV L	ack of unity of invention							
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	Box No. VI Certain documents cited								
	Box No. VII	Certain defects in the internations	al application						
	Box No. VIII C	Certain observations on the interr	national application						
Date of submission of the demand			Date of completion of the	is report					
Name and mailing address of the IPEA/EP			Authorized officer						
	-								
Facsimile No.			Telephone No.						
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/014327

Box	No. I		Basis of the report						
1.			to the language, this report is based on the internation der this item.	nal application in the language in which	it was filed, unless otherwise				
			his report is based on translations from the original language into the following language hich is the language of a translation furnished for the purposes of:						
			international search (Rule 12.3 and 23.1(b))						
			publication of the international application (Rule 12.4)					
			international preliminary examination (Rule 55.2 and/	for 55.3)					
2.	rece	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
		the int	ernational application as originally filed/furnished						
	\boxtimes	the de	scription:						
		pages	1-38		as originally filed/furnished				
		pages'		received by this Authority on					
		pages'	k	received by this Authority on					
	\boxtimes	the cla	uims:						
		nos.	1-18		as originally filed/furnished				
		nos.*							
		nos.*							
		nos.*		received by this Authority on	_				
	П	the dra	awings:	· · · · · · · · · · · · · · · · · · ·	_				
		sheets			as originally filed/furnished				
		sheets			_				
		sheets							
	\Box	_	ence listing and/or any related table(s) – see Supplem	ental Box Relating to Sequence Listing.					
3.	ш		mendments have resulted in the cancellation of:						
			the description, pages						
			the claims, nos.						
			the drawings, sheets/figs						
		the sequence listing (specify):							
			any table(s) related to sequence listing (specify):						
4.			eport has been established as if (some of) the amend ave been considered to go beyond the disclosure as fil						
			the description, pages						
			the claims, nos.						
			the drawings, sheets/figs						
			the sequence listing (specify):						
			any table(s) related to sequence listing (specify):						
*	If ite	т 4 арр	olies, some or all of those sheets may be marked "supo	erseded."					

International application No.
PCT/EP2004/014327

Box	k No. V			ticle 35(2) with regard to novelty, inventive step or industrial applicability; oporting such statement	
1.	Statement				
	Novelty	(N)	Claims	1-18	YES
			Claims		NO
Inventive step (IS)		Claims	1-18	YES	
			Claims		NO
Industrial applicability (IA)		Claims	1-18	YES	
			Claims		NO

2. Citations and explanations (Rule 70.7)

This report makes reference to the following documents:

D1: DE 196 36 382 A1

1. Novelty (PCT Article 33(2) / Inventive step (PCT Article 33(3))

The subject matter of claims 1-18 is novel over the prior art as cited in the international search report.

None of the documents cited in the search report discloses a method for producing aqueous primary dispersions from polymer-coated pigments, wherein a) at least one polyisocyanate having b) a compound with isocyanate-reactive groups, selected from polyetherols, polyesterols, polyvalent alcohols, polycarbonate diols, polyhydroxyolefins, polyhydroxyurethanes, polyisobutene diols, polysiloxanes and polyester diols based on lactone is mixed with pigment and water and reacted; or the corresponding aqueous primary dispersions, their use for finishing leather, in textile printing, for producing inks, the corresponding leather, textile,

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

printing paste, inkjet inks, fibrous substrates, coated pigments, or the corresponding methods for their production.

The subject matter of present claims 1-18 also involves an inventive step since neither D1 alone, which is regarded as the closest prior art, nor in conjunction with another document cited in the search report, contains anything that suggests the claimed method, for the following reasons:

D1 discloses pigment preparations and a method for their production for inkjet printing, the preparations being produced from a water-dispersible polyurethane based on polyether, TDI and N,N-diethanolamine, and carbon black in water (D1: examples 1 and 4).

The production method claimed in the present claims differs from the method for producing the pigment preparation known from D1 by the formation of the polyurethane in the presence of the pigment to be dispersed.

The technical problem is that of providing aqueous stable pigment dispersions that are based on polyurethane and produced using an alternative, simplified method wherein the pigments are easy to apply and have good fastness properties.

This problem is solved by the above-mentioned method; in example 4, a mini-emulsion is produced by mixing polyester diol, butane diol, hexadecane, an additive and IPDI in water and exposing the mixture

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to ultrasonic waves while cooling, and then the primary dispersion is produced by mixing the predispersed pigment and catalytically reacting said mixture. The inkjet ink formulation produces printing results with good values in friction resistance tests.

2. Industrial applicability (PCT Article 33(4))

The application relates to aqueous dispersions of pigments coated in polyurethane and is therefore industrially applicable.